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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/617,542	07/10/2003	Yuhi Tokita	YKIA121430	4280		
26389	7590 01/25/2006		EXAMINER			
CHRISTEN 1420 FIFTH	ISEN, O'CONNOR, JO	GOMA, TAWFIK A				
SUITE 2800		ART UNIT	PAPER NUMBER			
SEATTLE,	WA 98101-2347	2653				
			DATE MAILED: 01/25/200	6		

Please find below and/or attached an Office communication concerning this application or proceeding.

			Application No	)•	Applicant(s)				
Office Action Summary		10/617,542		TOKITA ET AL.					
		Examiner		Art Unit					
			Tawfik Goma		2653				
Period fo	The MAILING DATE of this commun or Reply	nication appe	ears on the cov	er sheet with the c	orrespondence ad	idress			
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD F CHEVER IS LONGER, FROM THE N nsions of time may be available under the provision: SIX (6) MONTHS from the mailing date of this comi period for reply is specified above, the maximum s re to reply within the set or extended period for reply reply received by the Office later than three months ed patent term adjustment. See 37 CFR 1.704(b).	MAILING DA s of 37 CFR 1.13 munication. tatutory period wi y will, by statute,	ATE OF THIS C 6(a). In no event, how fill apply and will expir cause the application	OMMUNICATION wever, may a repty be time e SIX (6) MONTHS from to become ABANDONE	I. nety filed the mailing date of this of (35 U.S.C. § 133).	,			
Status									
1)[□	Responsive to communication(s) file	ed on							
	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.								
. —	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is								
,,	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Dispositi	on of Claims								
· _		annlication							
	Claim(s) <u>1-15</u> is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.								
	Claim(s) <u>1-7 and 11</u> is/are allowed.								
·									
·	Claim(s) <u>8-10 and 12-14</u> is/are rejected.								
· · · · · · · · · · · · · · · · · · ·	)⊠ Claim(s) <u>15</u> is/are objected to. )□ Claim(s) are subject to restriction and/or election requirement.								
٥,۵	are subject to resum	ottori aria/or	Cicolion requi	oment.					
Applicati	on Papers								
9)[	The specification is objected to by the	ne Examiner	r.						
10)⊠ The drawing(s) filed on <u>10 July 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.									
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).									
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).									
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.									
Priority u	ınder 35 U.S.C. § 119								
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).									
	☑ All b) ☐ Some * c) ☐ None of:	3	,		(-) -: (.).				
/•		documents	have been rec	eived					
	<ul> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> </ul>								
	Copies of the certified copies of the priority documents have been received in Application No      Copies of the certified copies of the priority documents have been received in this National Stage								
	application from the International Bureau (PCT Rule 17.2(a)).								
* S	* See the attached detailed Office action for a list of the certified copies not received.								
See the attached detailed Office action for a list of the certified copies not received.									
	·								
Attachmen	t(s)								
	e of References Cited (PTO-892)		⊿، ⊏	Interview Summary	(PTO-413)	•			
2) Notic	e of Draftsperson's Patent Drawing Review (I	PTO-948)	·	Paper No(s)/Mail Da	ite				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  5) Notice of Informal Patent Application (PTO-152)						0-152)			
Paper No(s)/Mail Date 6) Other:									

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

## Claim Objections

Claim 15 is objected to because of the following informalities: The claim recites the term "said data" in lines 7 and 10. The examiner recommends that the term "said data" should read "said test data" in order to clarify the claim. Appropriate correction is required.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 8-10 and 12-14 are rejected under 35 U.S.C. 102(b) as being anticipated by Goro (JP Publication 11-025491).

Regarding claim 8 and 12, Goro discloses an optical disk apparatus for recording data on an optical disk (Drawing 2), comprising means for detecting first reproduced signal quality of test data obtained after test data recorded with write power lower than write power P of a laser beam have been overwritten with said write power P or second reproduced signal quality of test data obtained after test data recorded with write power higher than said write power P have been overwritten with said write power P (Abstract and par. 76 of Detailed Description); and means for setting optimum write power on

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the basis of said first reproduced signal quality or said second reproduced signal quality (Detailed Description par. 79-80). Goro discloses that the random data is overwritten repeatedly using different laser powers and that the optimum laser power is determined based on a comparison of the error signal from the recorded data with a predetermined threshold value.

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Regarding claim 9 and 13, Goro further discloses wherein said first and second reproduced signal qualities are jitter or an error rate (Detailed Description, par. 79), and said setting means sets, as said optimum write power, write power P at which said jitter or error rate becomes lower than or equal to said threshold value (Detailed Description, pars. 79-80).

Regarding claim 10 and 14, Goro further discloses wherein said first and second reproduced signal qualities are jitter or an error rate (Detailed Description, par. 79), and said setting means sets, as said optimum write power, a minimum write power level from among write power levels P at which a rate of change in said jitter or error rate with regard to said write power P is lower than or equal to a predetermined threshold value (Pset, Drawing 4 (b), and Detailed Description, par. 51). Drawing 4b, shows that the rate of change at the optimum power level is minimum at Pset.

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#### Allowable Subject Matter

Claims 1-7 and 11 are allowed over the prior art of record because the prior art of record including closest Japanese Publication (11-025491) and Masaki et al (US Patent Publication 2002/0036962) considered in combination or individually, fail to suggest or fairly teach an optimum power setting recording apparatus including a combination of monitoring an error rate while overwriting test data repeatedly while incrementing the laser power and monitoring the error rate while overwriting test data repeatedly while decrementing the laser power; and determining an optimum power based on the difference between the monitored error rate of the incremented power case and monitored error rate of the decremented power case.

Claim 15 is allowable for the same reasons as claims 1-7 and 11 above.

#### Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Minemura et al (US patent 6463020) discloses an optimum power setting apparatus that can determine the optimum power based on an average power level existing between low and high power conditions. Mashimo et al (US Patent 6778478) discloses an optical recording apparatus that determines an optimum power by overwriting and measuring a modulation degree. Masaki et al (US Patent 6115338) discloses a light emission adjusting device that can be used for an overwriting medium.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tawfik Goma whose telephone number is (571) 272-4206. The examiner can normally be reached on 8:30 am - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Korzuch can be reached on (571) 272-7589. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Tawfik Goma 1/12/2006

Thang V. Tran Primary Examiner 1/12/2006

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